

Construction Chemicals

THOROSEAL®

Version 1.3 07/09/2004

1. PRODUCT AND COMPANY INFORMATION

Company : Degussa Building Systems

889 Valley Park Drive Shakopee, MN 55379

Telephone : 952-496-6000

Emergency telephone number : (800) 424-9300

(703) 527-3887 (Outside Continental US)

Product name : THOROSEAL®

MSDS ID No. : 10917

TSCA Inventory : All components of this product are included, or are exempt from inclusion, in the EPA

Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL : All components of this product are included, or are exempt from inclusion, in the

Canadian Domestic Substance List (DSL).

Product Use Description : Cement

2. HAZARDOUS INGREDIENTS

<u>Chemical</u>	CAS No.	<u>TLV</u>	STEL	<u>PEL</u>	<u>CEIL</u>	Weight %
SILICA, CRYSTALLINE QUARTZ	14808-60-7	0.05 mg/m3	N.E.	5 mg/m3	N.E.	30.00 - 60.00 %
PORTLAND CEMENT	65997-15-1	10 mg/m3	N.E.	5 mg/m3	N.E.	20.00 - 50.00 %
IRON OXIDE	1309-37-1	5 mg/m3	N.E.	10 mg/m3	N.E.	0.00 - 10.00 %
IRON OXIDE	1317-61-9	3 mg/m3	N.E.	N.E.	N.E.	0.00 - 10.00 %
MAGNESIUM OXIDE	1309-48-4	10 mg/m3	N.E.	15 mg/m3	N.E.	0.00 - 5.00 %
LIMESTONE	1317-65-3	5 mg/m3	N.E.	5 mg/m3	N.E.	0.00 - 5.00 %
GYPSUM	13397-24-5	5 mg/m3	N.E.	5 mg/m3	N.E.	0.00 - 5.00 %
CALCIUM HYDROXIDE	1305-62-0	5 mg/m3	N.E.	5 mg/m3	N.E.	0.00 - 5.00 %
CALCIUM OXIDE	1305-78-8	2 mg/m3	N.E.	5 mg/m3	N.E.	0.00 - 5.00 %
ANHYDRITE	7778-18-9	10 mg/m3	N.E.	5 mg/m3	N.E.	0.00 - 5.00 %

3. HAZARDS IDENTIFICATION

PHYSICAL HMIS® Rating HEALTH FLAMMABILITY HAZARD 2* 0 1

WHMIS Class : D2B

Ε

Primary Routes of Entry : Ingestion

Inhalation Eye contact Skin contact

Effects of Overexposure



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Inhalation : Inhalation of dust can cause coughing and labored breathing and possible temporary but

reversible irritation on mucous membranes and respiratory tract.

Skin : Can cause slight to moderate irritation due to abrasive action. In combination with

water, repeated or prolonged dermal exposure can cause moderate to severe alkali

burns.

Eyes : Can cause severe irritation, redness, tearing and blurred vision. Prolonged or repeated

contact can cause burns and possibly corneal injury.

Ingestion : Irritating to mouth, throat and stomach.

Chronic exposure : This product contains Crystalline (quartz) Silica which has been listed as a human

carcinogen by NTP (Group 1) and IARC (Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (catagory A2). Repeated or prolonged over exposure to free respirable Crystalline (quartz) silica can cause silicosis or other delayed and serious lung injury. Repeated or prolonged overexposure to free respirable silica can cause silicosis

or other delayed and serious lung injury.

Carcinogenicity

	ACGIH	IARC	NIP	OSHA
SILICA, CRYSTALLINE QUARTZ	Suspected human	Human carcinogen.	Known carcinogen.	N.E.
	carcinogen.			
PORTLAND CEMENT	N.E.	N.E.	N.E.	N.E.
IRON OXIDE	Not classifiable as a	Classification not	N.E.	N.E.
	human carcinogen.	possible from		
		current data.		
IRON OXIDE	N.E.	N.E.	N.E.	N.E.
MAGNESIUM OXIDE	Not classifiable as a	N.E.	N.E.	N.E.
	human carcinogen.			
LIMESTONE	N.E.	N.E.	N.E.	N.E.
GYPSUM	N.E.	N.E.	N.E.	N.E.
CALCIUM HYDROXIDE	N.E.	N.E.	N.E.	N.E.
CALCIÚM OXIDE	N.E.	N.E.	N.E.	N.E.
ANHYDRITE	N.E.	N.E.	N.E.	N.E.

4. FIRST AID MEASURES

Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek

medical attention.

Skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of

water. Seek medical advice.

Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Call a

physician immediately. Never give anything by mouth to an unconscious person. If a

person vomits, place him/her in the recovery position.

Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing

has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate

medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : Not combustible.

Autoignition temperature : Not combustible.



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Lower explosion limit : not applicable

Upper explosion limit : not applicable

Suitable extinguishing media : water fog

carbon dioxide (CO2)

dry chemical

alcohol-resistant foam

Fire and Explosion Hazards This product is alkaline and releases considerable heat on contact with small amounts of

water. Avoid contact between resulting hot alkaline paste and metallic aluminum. Such

contact could generate hydrogen gas.

Special Fire-fighting Procedures : As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH

approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up : Clean up promptly by sweeping or vacuum. Clean thoroughly. After cleaning, flush away

traces with water. Keep in suitable, closed containers for disposal. Wear personal

protective equipment (refer to section 8).

7. HANDLING AND STORAGE

Handling : Use only in area provided with appropriate ventilation. Keep out of reach of children.

Avoid exceeding of the given occupational exposure limits (see section 2). Avoid

formation of respirable particles.

Storage : Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection : Wear as appropriate:

safety glasses with side-shields

face-shield goggles

Hand protection : Wear as appropriate:

impervious gloves

Body Protection : Wear as appropriate:

preventive skin protection impervious clothing

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. When workers are

facing concentrations above the exposure limit they must use NIOSH approved

respirators.

Hygienic Practices : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in

confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or

smoke.

Engineering Controls : Local exhaust ventilation can be necessary to control any air contaminants to within their

TLVs during the use of this product.

degussa.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Color : various colors

Physical State : powder

Odor : Earthy

pH (at 100 %) : not applicable

Odor Threshold : no data available

Vapor Pressure : not applicable

Vapor Density : not applicable

Boiling point/range : no data available

Freeze Point : no data available

Water solubility : slightly soluble

Specific Gravity : 2.70

Viscosity : no data available

Evaporation rate : no data available

Partition coefficient (n-

octanol/water)

no data available

VOC Concentration as applied

(less water and exempt

solvents)

: 0 g/l

10. STABILITY AND REACTIVITY

Stability : Stable under recommended storage conditions.

Conditions to avoid : no data available

Materials to avoid : strong acids and strong bases

strong oxidizing agents

Hazardous decomposition

products

no data available

Hazardous polymerization : Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

e Value

Species

Exposure time



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Product	LC50	no data available	
Component			
SILICA, CRYSTALLINE QUARTZ PORTLAND CEMENT IRON OXIDE IRON OXIDE MAGNESIUM OXIDE LIMESTONE GYPSUM CALCIUM HYDROXIDE CALCIUM OXIDE ANHYDRITE	LC50 LC50 LC50 LC50 LC50 LC50 LC50 LC50	no data available no data available 0.96 mg/l no data available 46 mg/l no data available no data available no data available no data available no data available	4 h 1 h
Acute oral toxicity Product	<u>Type</u> LD50 (Oral)	<u>Value</u> no data available	<u>Species</u>
Component			
SILICA, CRYSTALLINE QUARTZ PORTLAND CEMENT IRON OXIDE IRON OXIDE MAGNESIUM OXIDE LIMESTONE GYPSUM CALCIUM HYDROXIDE CALCIUM OXIDE ANHYDRITE	LD50 (Oral) LD50 (Oral) LD50 (Oral) LD50 (Oral) LD50 (Oral) LD50 (Oral) LD50 (Oral) LD50 (Oral) LD50 (Oral) LD50 (Oral)	1,300 mg/kg 2,000 mg/kg 3,700 mg/kg no data available 5,000 mg/kg 6,450 mg/kg no data available 7,340 mg/kg no data available no data available	rat rat
Acute dermal toxicity	<u>Type</u>	<u>Value</u>	<u>Species</u>
<u>Product</u>	LD50 (Dermal)	no data available	
<u>Componen</u> t			
SILICA, CRYSTALLINE QUARTZ PORTLAND CEMENT IRON OXIDE IRON OXIDE MAGNESIUM OXIDE LIMESTONE GYPSUM CALCIUM HYDROXIDE CALCIUM OXIDE	LD50 (Dermal) LD50 (Dermal) LD50 (Dermal) LD50 (Dermal) LD50 (Dermal) LD50 (Dermal) LD50 (Dermal) LD50 (Dermal)	no data available 3,160 mg/kg no data available 8,480 mg/kg 2,520 mg/kg	



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ANHYDRITE LD50 (Dermal) no data available

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT : Proper shipping name Not regulated

IATA : Proper shipping name Not regulated

15. REGULATORY INFORMATION

SARA 311/312 (RTK)

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD DELAYED (CHRONIC) HEALTH HAZARD

SARA 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Weight % CAS No. Chemical Name

This product contains no chemicals subject to the SARA 313 supplier notification requirements.

CERCLA

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

RQ CAS No. Chemical Name

No CERCLA chemicals exist in this product above reportable concentrations.

TSCA Section 12(b) Export Notification

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

CAS No. Chemical Name

There are no TSCA 12(b) Chemicals in this product.



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California Proposition 65

The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

CAS No.	<u>Chemical Name</u>
1308-38-9	CHROMIUM OXIDE
1333-86-4	CARBON BLACK
14808-60-7	SILICA, CRYSTALLINE QUARTZ
7439-92-1	INORGANIC LEAD
7440-02-0	NICKEL
7440-38-2	ARSENIC
7440-43-9	CADMIUM

16. OTHER INFORMATION

Legend : N.E. - Not Established

TLV - Threshold Limit Value STEL - Short Term Exposure Limit PEL - Permissible Exposure Limit

CEIL - Ceiling

Prepared By : Environment, Health and Safety Department

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End of MSDS.